

CLAIMS

1 1. A floating-probe flowmeter for measuring the flow rate of a moving medium,
2 with a measuring tube through which flows a medium against the force of gravity, said
3 measuring tube containing a float capable of moving at least in the direction of the flow,
4 wherein at least the surface of the float that is exposed to the flow of the medium is pro-
5 vided with a microstructure and/or that the inner surface of the measuring tube at least in
6 the area of movement of the float is provided with a microstructure.

1 2. The floating-probe flowmeter as in claim 1, wherein the peaks of the microstruc-
2 ture are between 5 and 400 μm high and the apices of neighboring peaks are spaced apart
3 by a distance of between 5 and 800 μm .

1 3. The floating-probe flowmeter as in claim 2, wherein neighboring peaks are of ap-
2 proximately equal height and the apices of neighboring peaks are spaced apart by a dis-
3 tance corresponding to about 1 to 2 times the height of the peaks.

1 4. The floating probe flowmeter as in claim 2, wherein the neighboring peaks are
2 between 5 and 100 μm high and the apices of neighboring probes are spaced apart by a
3 distance of between 5 and 200 μm .

1 5. The floating-probe flowmeter as in one of the claims 1 to 3, wherein the peaks of
2 the said microstructure are hydrophobic.

- Claim 2 does not
teach peaks